

IN THE CLAIMS

Claims 1-16 (Canceled)

Claim 17. (Original) An apparatus comprising:
a body portion formed of a dimension suitable for a medical device application and comprising a semi-crystalline polymer arrayed in a node of folded lamella and a fibril orientation.

Claim 18. (Original) The apparatus of claim 17, wherein the body portion comprises a catheter balloon

Claim 19. (Original) The apparatus of claim 17, wherein the body portion comprises a film having dimensions suitable for a graft.

Claim 20. (Original) The apparatus of claim 17, wherein the polymer is selected from the group consisting of polyalkylene polymers, polyolefin polymers, and polyoxymethylene-acetyl co-polymers.

Claim 21. (Original) The apparatus of claim 17, wherein the polymer comprises ultra high molecular weight polyethylene.

Claim 22. (Original) The apparatus of claim 17, wherein the polymer has an auxetic property.

Claim 23. (Original) An apparatus comprising:
a body portion comprising an ultra-high molecular weight polyethylene material arrayed in a node of folded lamella and a fibril orientation.

Claim 24. (Original) The apparatus of claim 23, wherein the body portion comprises fibers of the ultra-high molecular weight polyethylene material.

Claim 25. (Original) The apparatus of claim 23, wherein the body portion comprises a film of the ultra-high molecular weight polyethylene material.

Claim 26. (Original) The apparatus of claim 24, wherein the body portion is formed of a dimension suitable for a medical device.

Claim 27. (Original) The apparatus of claim 26, wherein the body portion comprises a catheter balloon.

Claim 28. (Original) The apparatus of claim 26, wherein the body portion comprises a film having dimensions suitable for a graft.

Claim 29. (Original) The apparatus of claim 24, wherein the polymer has an auxetic property.

Claim 30. (Original) The apparatus of claim 2, wherein the ultra-high molecular weight polyethylene material comprises an internodal distance of 10 microns and 500 microns.